

**AMENDMENTS TO THE CLAIMS:**

**Listing of Claims**

Claim 1. (Currently Amended) An optical wave guide comprising a core, wherein said core comprises Fiber optic material, comprising a polymer and at least one organic compound introduced therein, characterized in that the organic compound is a condensed aromatic ring system with two or more isocyclic or heterocyclic aromatic rings, wherein each heteroatom is selected from the group consisting of nitrogen and oxygen and is assigned to precisely one ring if the ring is heterocyclic.

Claim 2. (Currently Amended) The optical waveguide Fiber-optic material according to claim 1, characterized in that the condensed aromatic ring system comprises three or more rings.

Claim 3. (Currently Amended) The optical waveguide Fiber-optic material according to claim 2, characterized by an angular arrangement of the rings in the condensed aromatic ring system.

Claim 4. (Currently Amended) The optical waveguide Fiber-optic material according to claim 1, characterized in that at least one heteroatom is nitrogen.

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Claim 5. (Currently Amended)    The optical waveguide Fiber-optic  
material according to claim 1, characterized in that the condensed aromatic  
ring system comprises phenanthrene, fluorene, benzanthrazenes or  
triphenylene.

Claim 6. (Currently Amended)    The optical waveguide Fiber-optic  
material according to claim 1, characterized in that the condensed aromatic  
ring system comprises benzoquinoline, 1,10-phenanthroline, phenanthridine,  
or 1,7-phenantroline.

Claim 7. (Currently Amended)    The optical waveguide Fiber-optic  
material according to claim 1, characterized in that the condensed aromatic  
ring system is composed of 1,2-benzoxazole or benzofurane.

Claim 8. (Currently Amended)    The optical waveguide Fiber-optic  
material according to claim 1, characterized in that the condensed aromatic  
ring system comprises anthrazenes, 2,3-benzanthrazenes, anthracene, 2,3-  
benzanthracene, or 11H-benzofluorene.

Claim 9. (**Canceled**)

Claim 10. (New) The optical waveguide of claim 1, wherein the  
polymer is polymethylmethacrylate or polyester.

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Claim 11. (New) The optical waveguide of claim 5, wherein the polymer is polymethylmethacrylate or polyester.

Claim 12. (New) The optical waveguide of claim 6, wherein the polymer is polymethylmethacrylate or polyester.

Claim 13. (New) The optical waveguide of claim 7, wherein the polymer is polymethylmethacrylate or polyester.

Claim 14. (New) The optical waveguide of claim 8, wherein the polymer is polymethylmethacrylate or polyester.